OIPE
AUG 0 2 2004
PATENT & TRADEMARK OFFICE

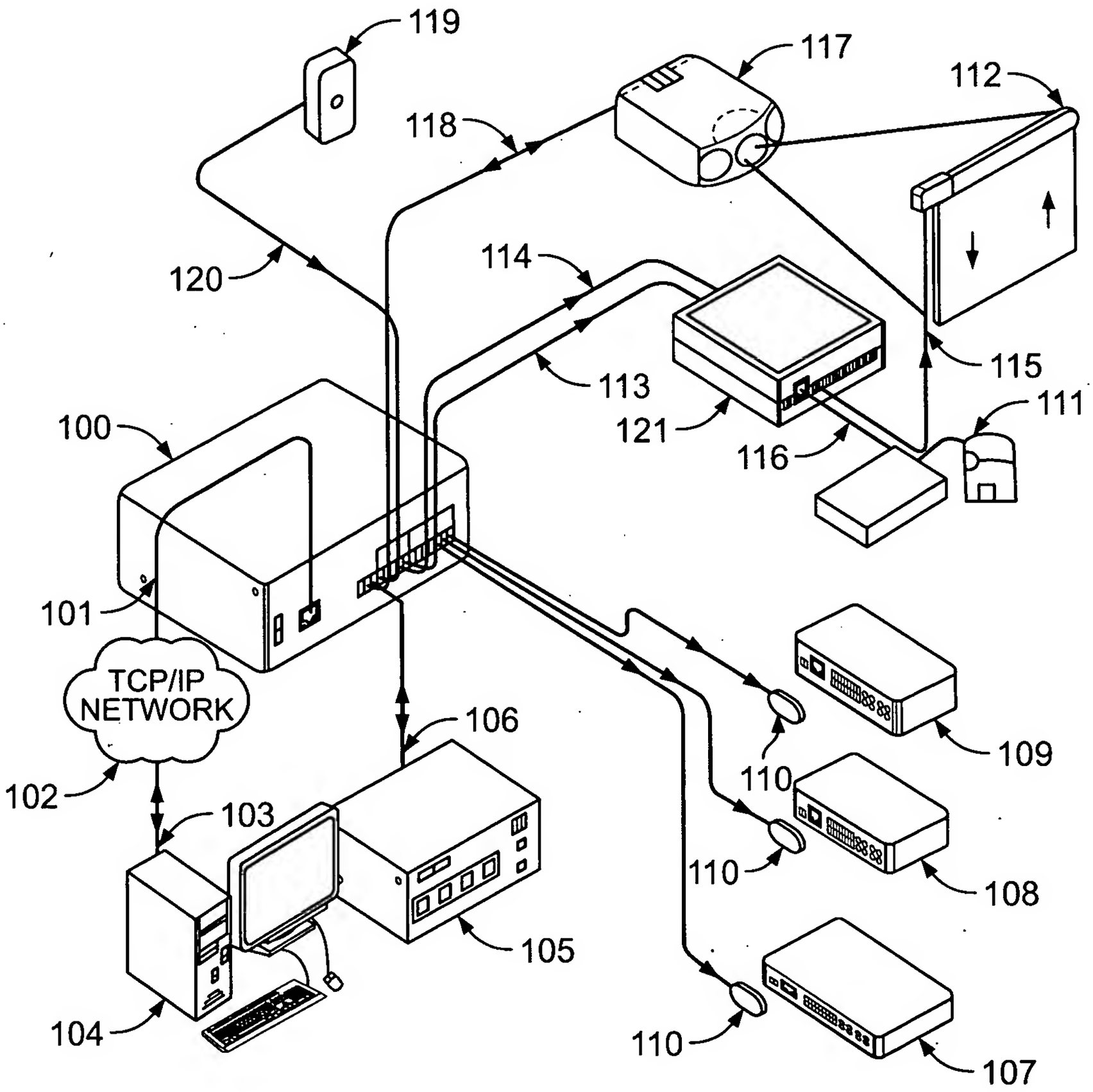

FIG. 1

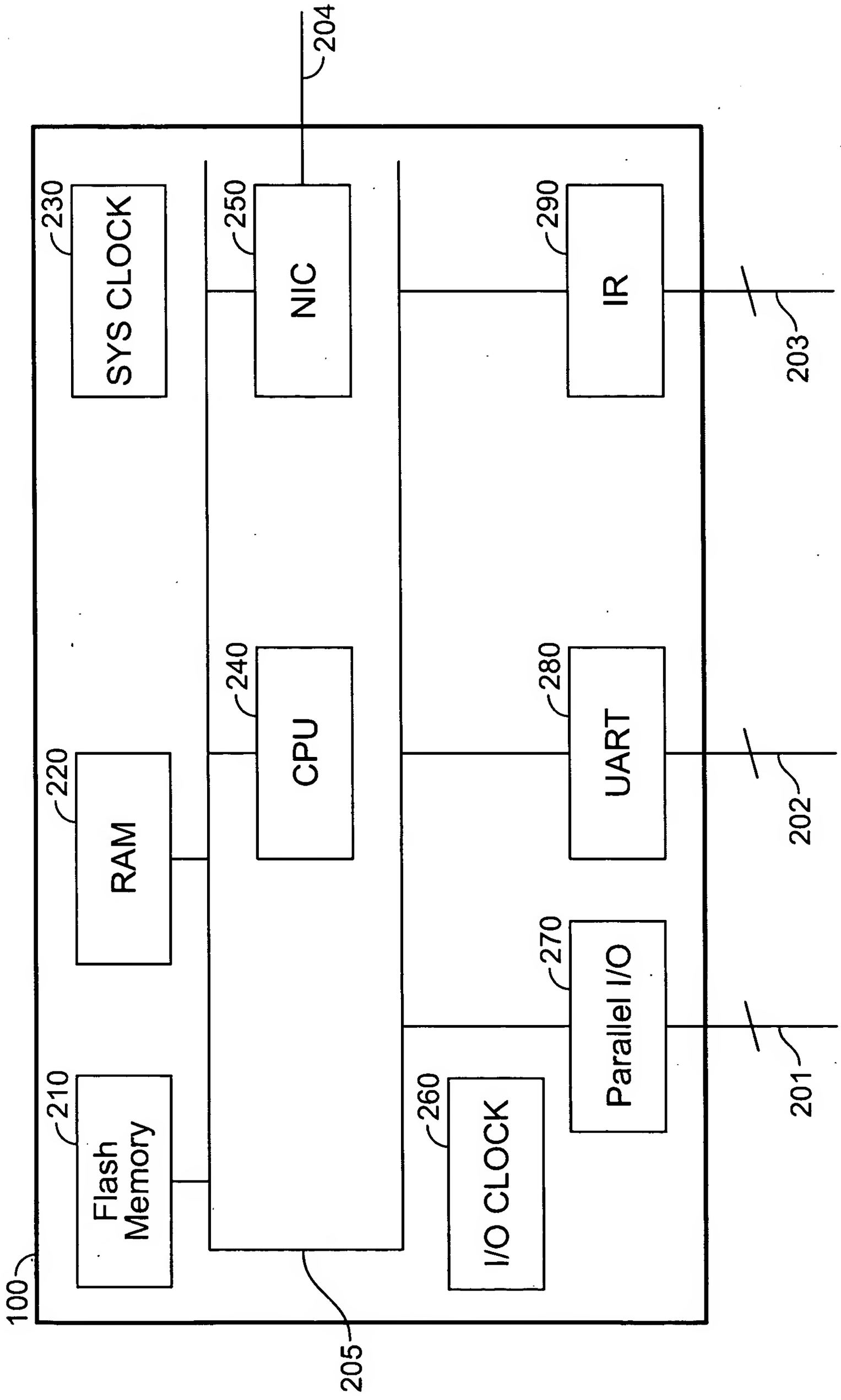
204
230
SYS CLOCK
250
NIC
290
IR
203
220
RAM
240
CPU
280
UART
202
210
Flash Memory
260
I/O CLOCK
270
Parallel I/O
201
100
205

FIG. 2

Serial Port Settings

Serial Port: ⊙1 ○2

Port type: RS-232

Baud rate: 9600

Data bits: 8

Parity: None

Stop bits: 1

Flow control: None

Submit Cancel

FIG. 3

Flex I/O Port Settings

Port	Mode	Pull-up	Threshold*	Lower* (0.25,3V)	Upper* (0.25,3V)	Status
1	Digital Input	✓	✓	0.9	1.0	Off
2	Digital Output	✓				Off (5V)
3	Digital Output	✓				Off (5V)
4	Digital Output	✓				Off (5V)

Submit Cancel

* Lower and Upper Threshold settings are for Digital Input only.

FIG. 4

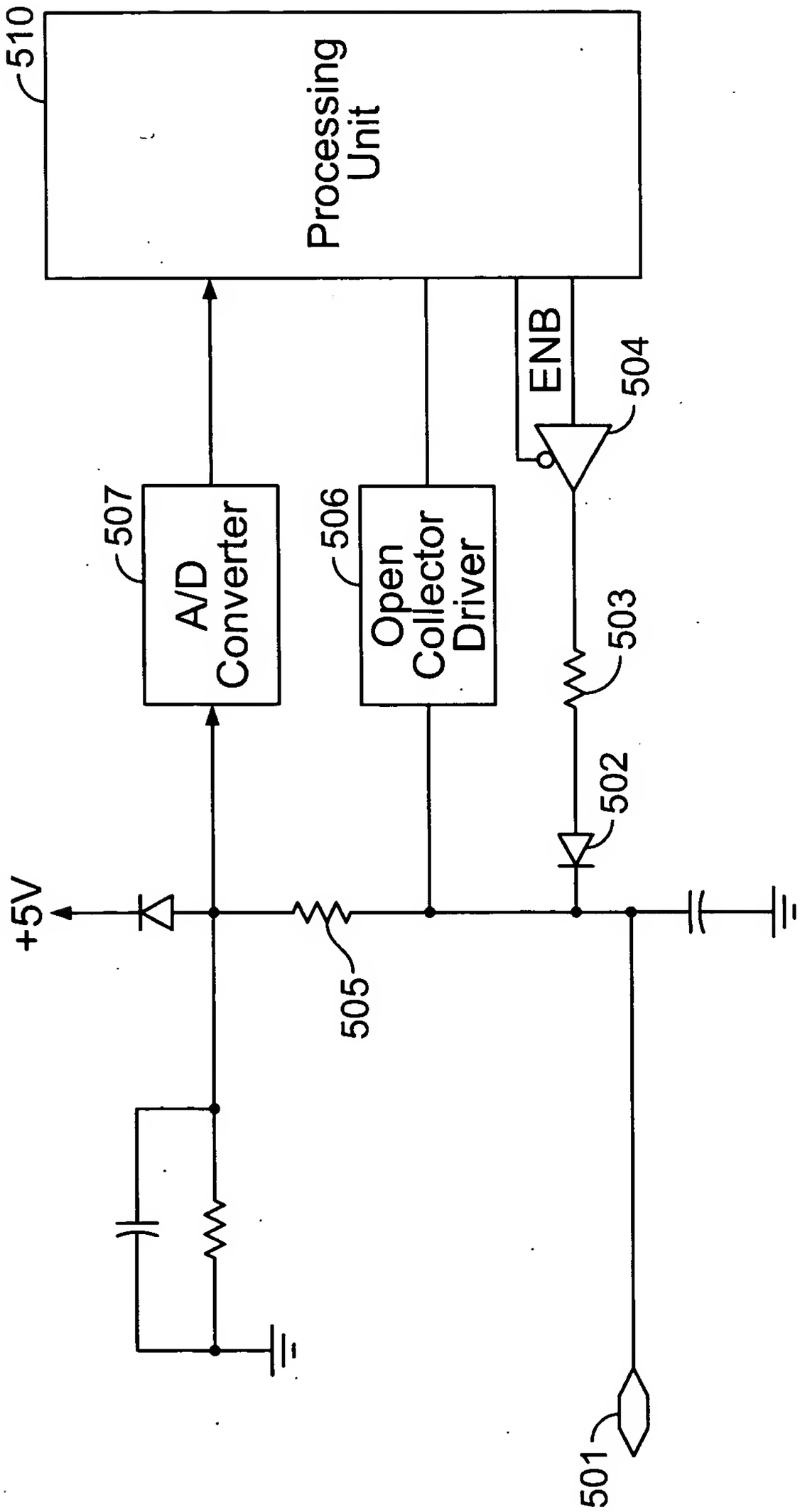
510
Processing Unit
ENB
504
507
A/D Converter
506
Open Collector Driver
503
502
+5V
505
501

FIG. 5

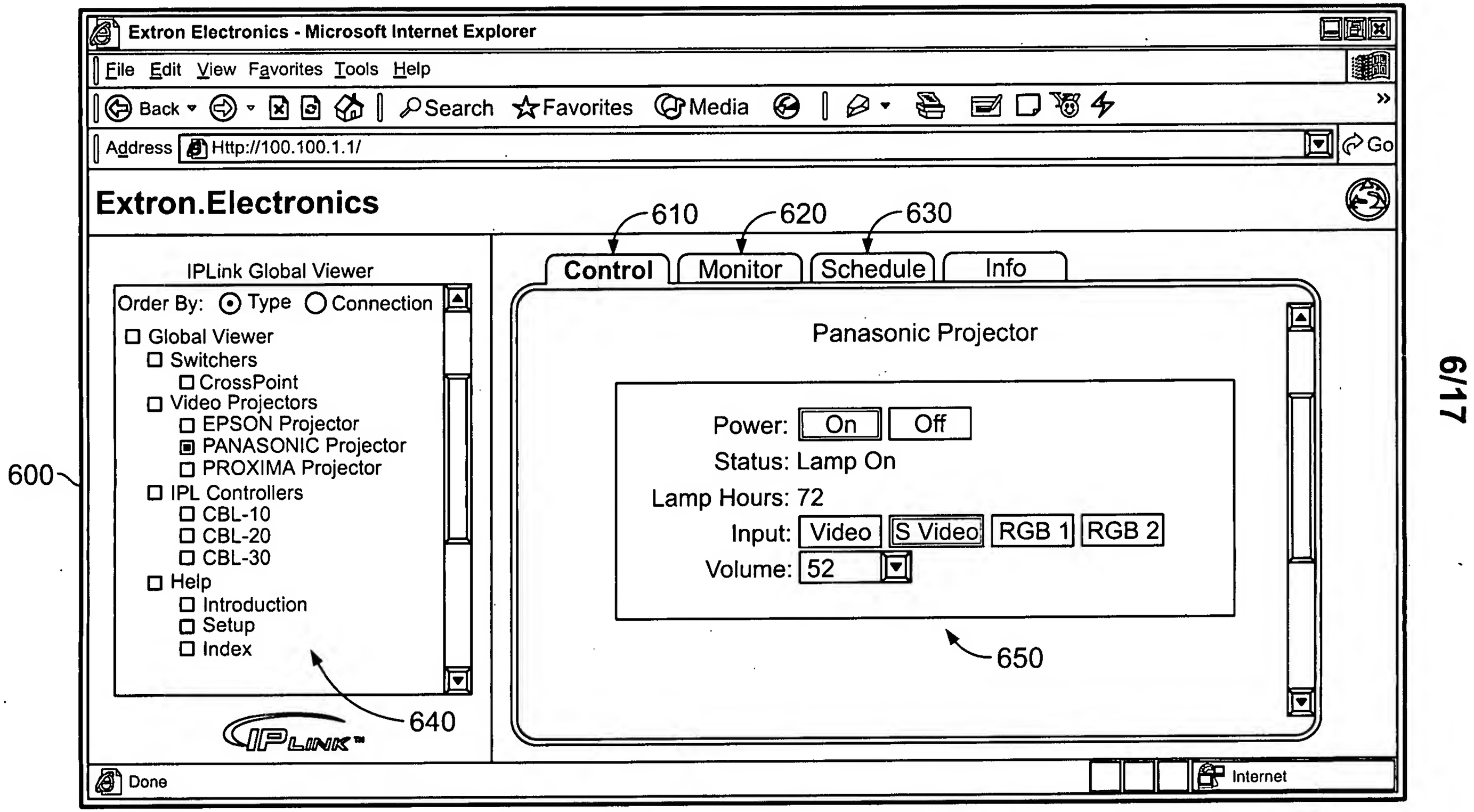
Extron Electronics - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites Media
Address Http://100.100.1.1/
Go
Extron.Electronics
610
620
630
IPLink Global Viewer
Order By: Type Connection
Global Viewer
Switchers
CrossPoint
Video Projectors
EPSON Projector
PANASONIC Projector
PROXIMA Projector
IPL Controllers
CBL-10
CBL-20
CBL-30
Help
Introduction
Setup
Index
600
640
Control
Monitor
Schedule
Info
Panasonic Projector
Power: On Off
Status: Lamp On
Lamp Hours: 72
Input: Video S Video RGB 1 RGB 2
Volume: 52
650
Done
Internet

FIG. 6

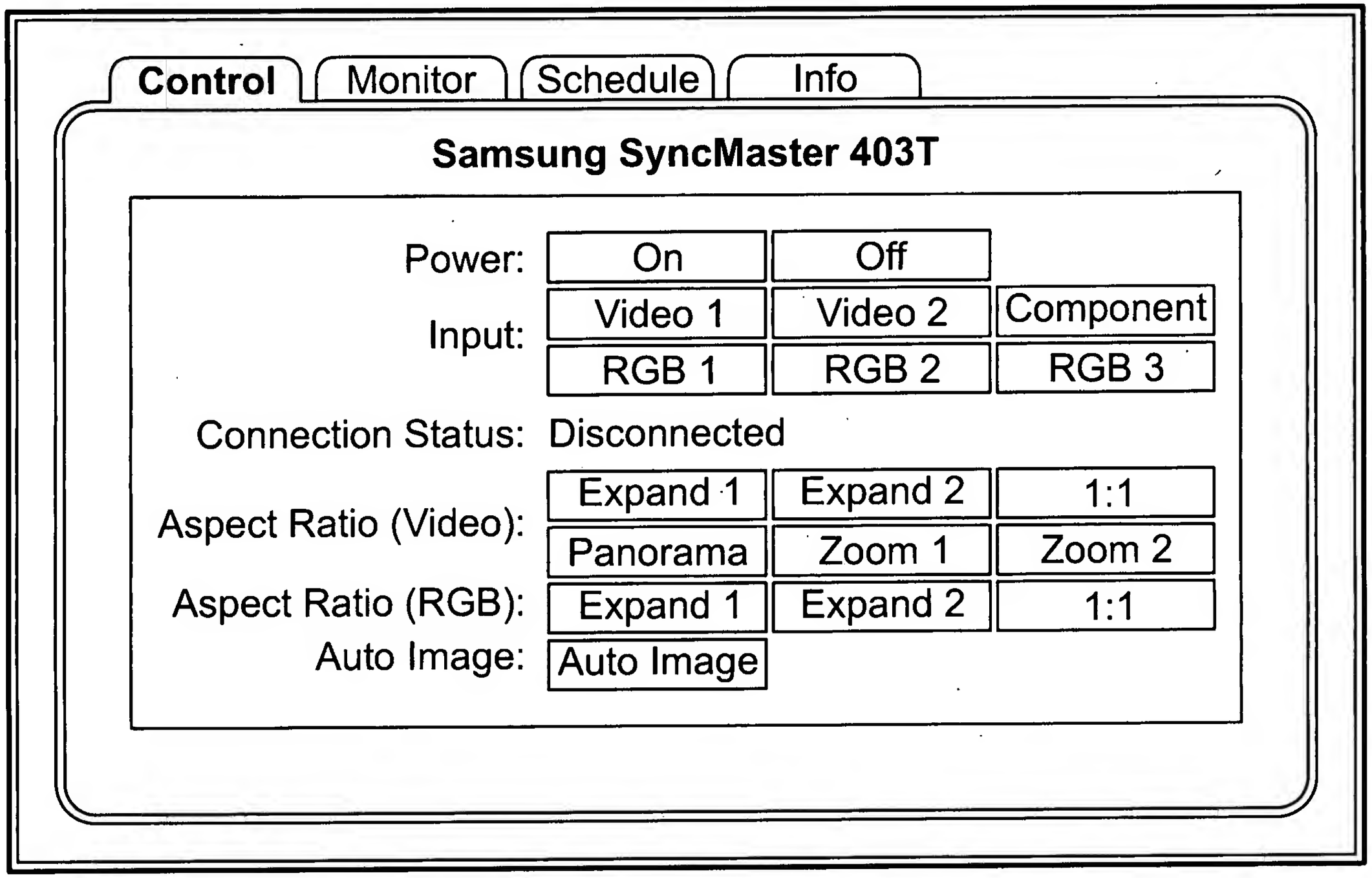
Control
Monitor
Schedule
Info
Samsung SyncMaster 403T
Power:
On
Off
Input:
Video 1
Video 2
Component
RGB 1
RGB 2
RGB 3
Connection Status:
Disconnected
Aspect Ratio (Video):
Expand 1
Expand 2
1:1
Panorama
Zoom 1
Zoom 2
Aspect Ratio (RGB):
Expand 1
Expand 2
1:1
Auto Image:
Auto Image

FIG. 7

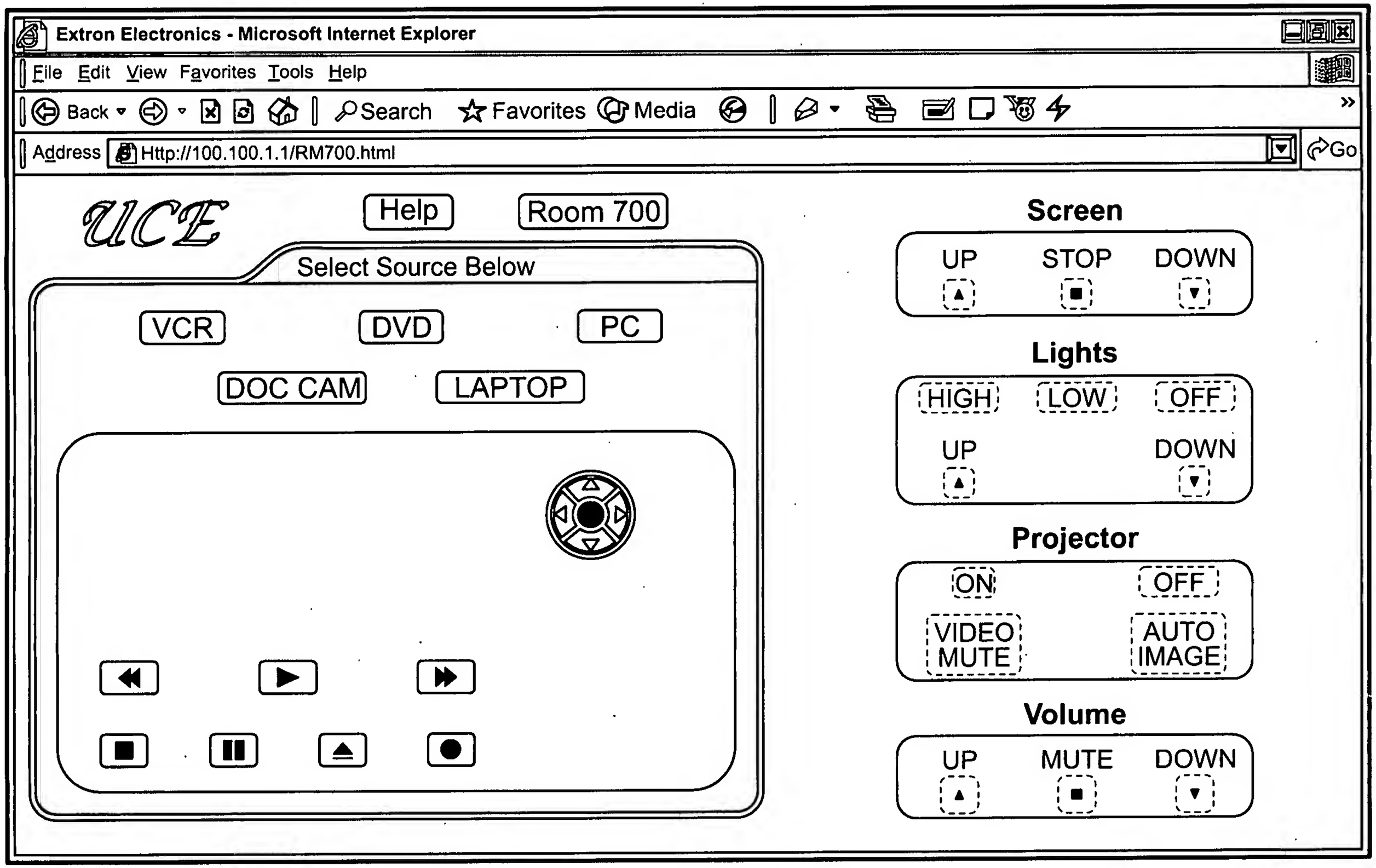
Extron Electronics - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites Media
Address Http://100.100.1.1/RM700.html
Go
UCE
Help
Room 700
Select Source Below
VCR
DVD
PC
DOC CAM
LAPTOP
Screen
UP
STOP
DOWN
Lights
HIGH
LOW
OFF
UP
DOWN
Projector
ON
OFF
VIDEO MUTE
AUTO IMAGE
Volume
UP
MUTE
DOWN

FIG. 8

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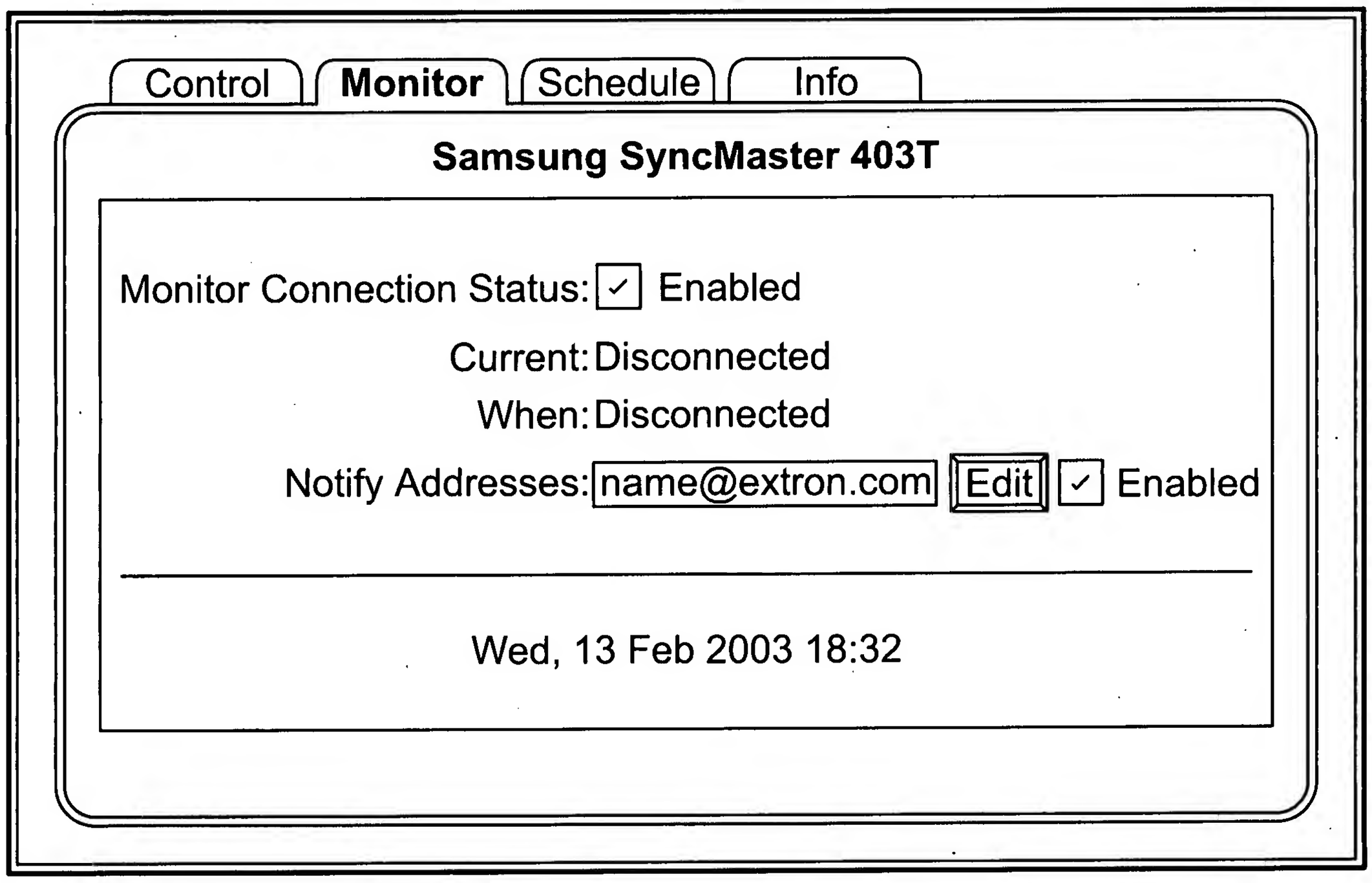
Control
Monitor
Schedule
Info
Samsung SyncMaster 403T
Monitor Connection Status: ✓ Enabled
Current: Disconnected
When: Disconnected
Notify Addresses: name@extron.com Edit ✓ Enabled
Wed, 13 Feb 2003 18:32

FIG. 9

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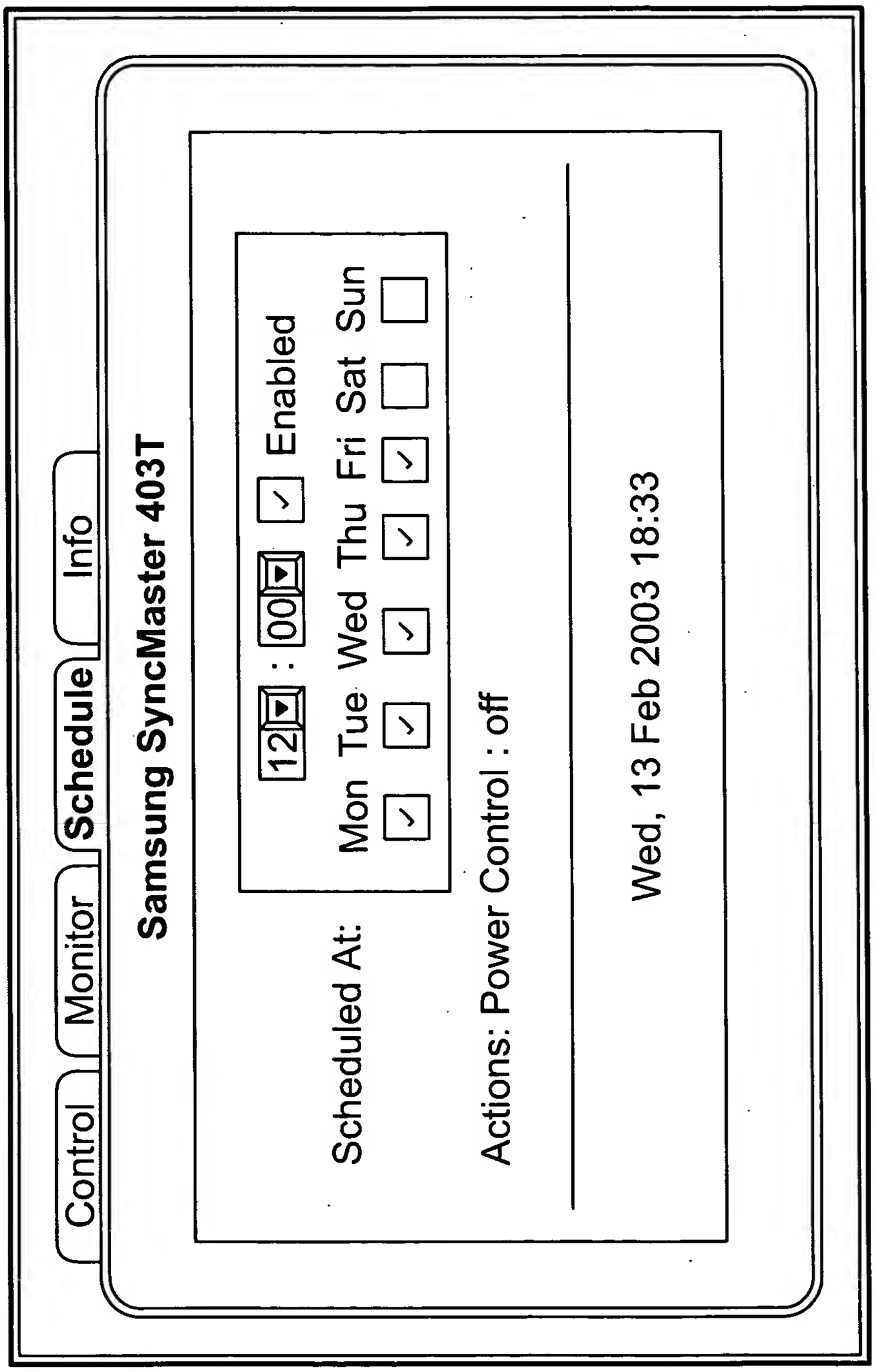
Control
Monitor
Schedule
Info
Samsung SyncMaster 403T
Schedule At:
12 : 00 Enabled
Mon Tue Wed Thu Fri Sat Sun
Actions: Power Control : off
Wed, 13 Feb 2003 18:33

FIG. 10

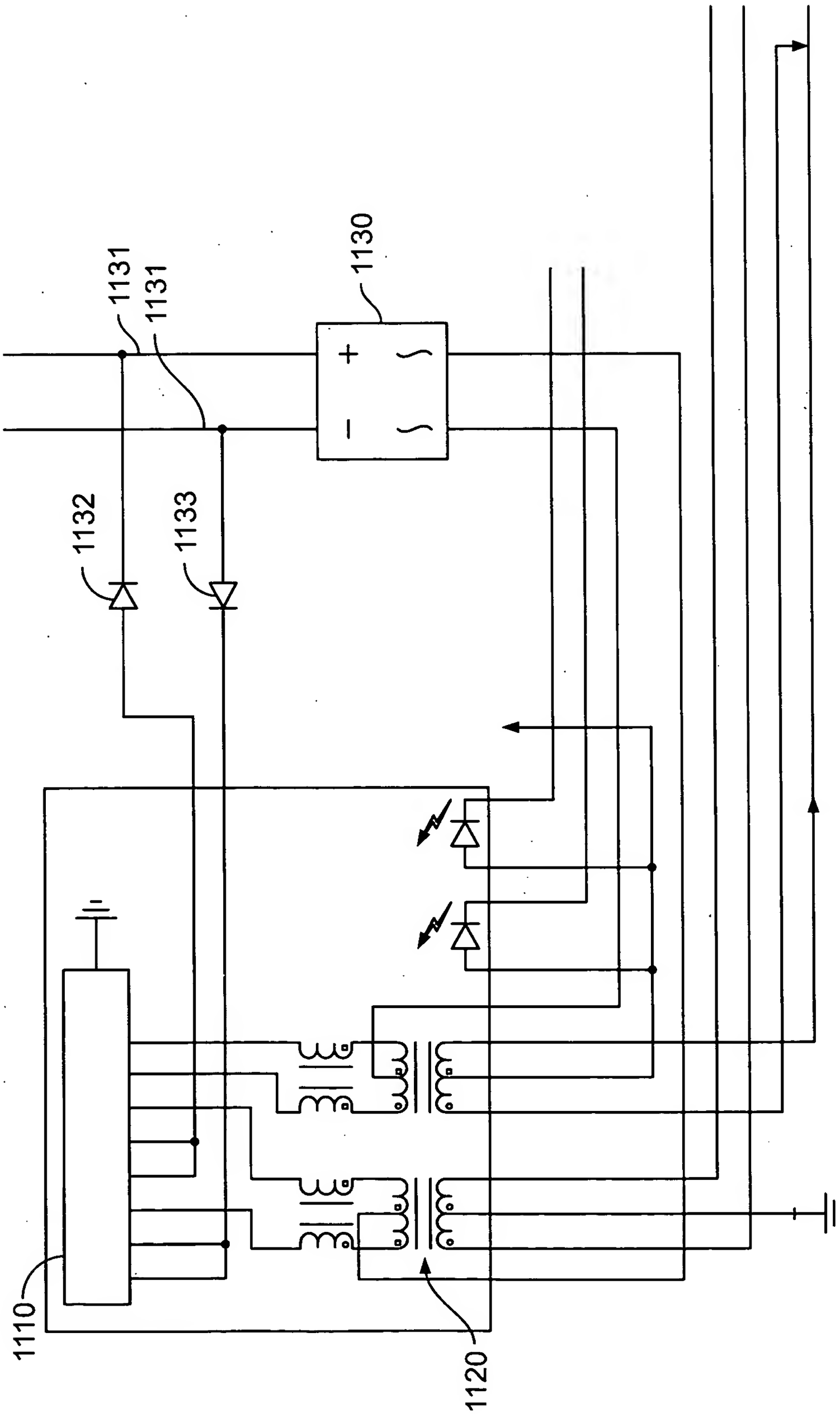

FIG. 11A

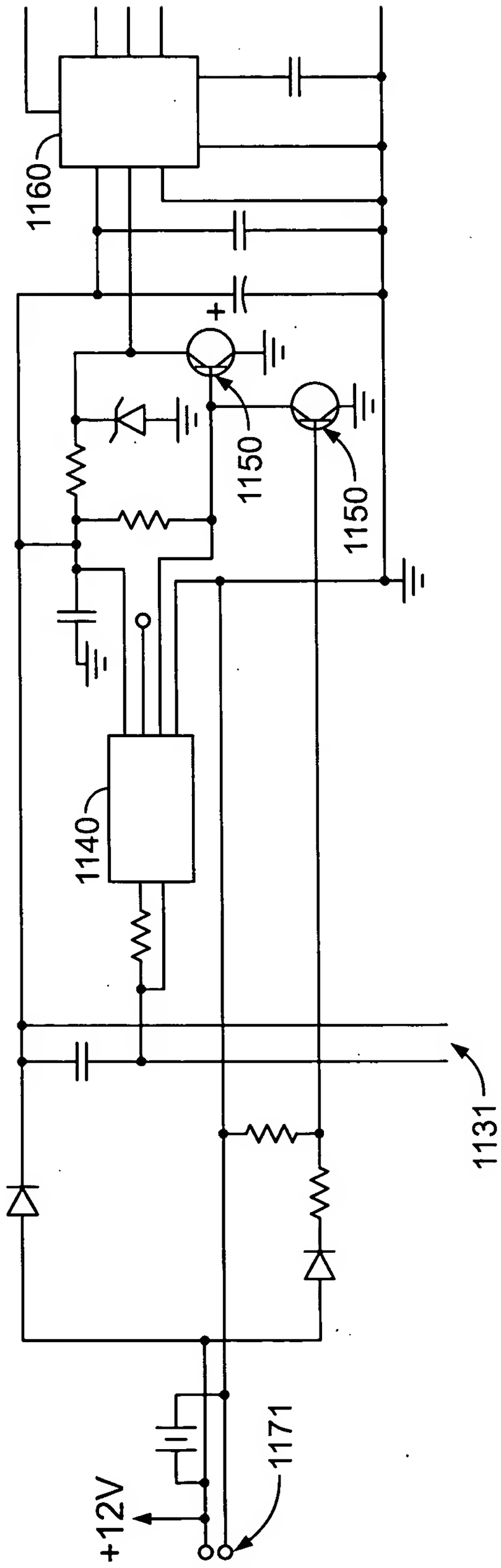

FIG. 11B

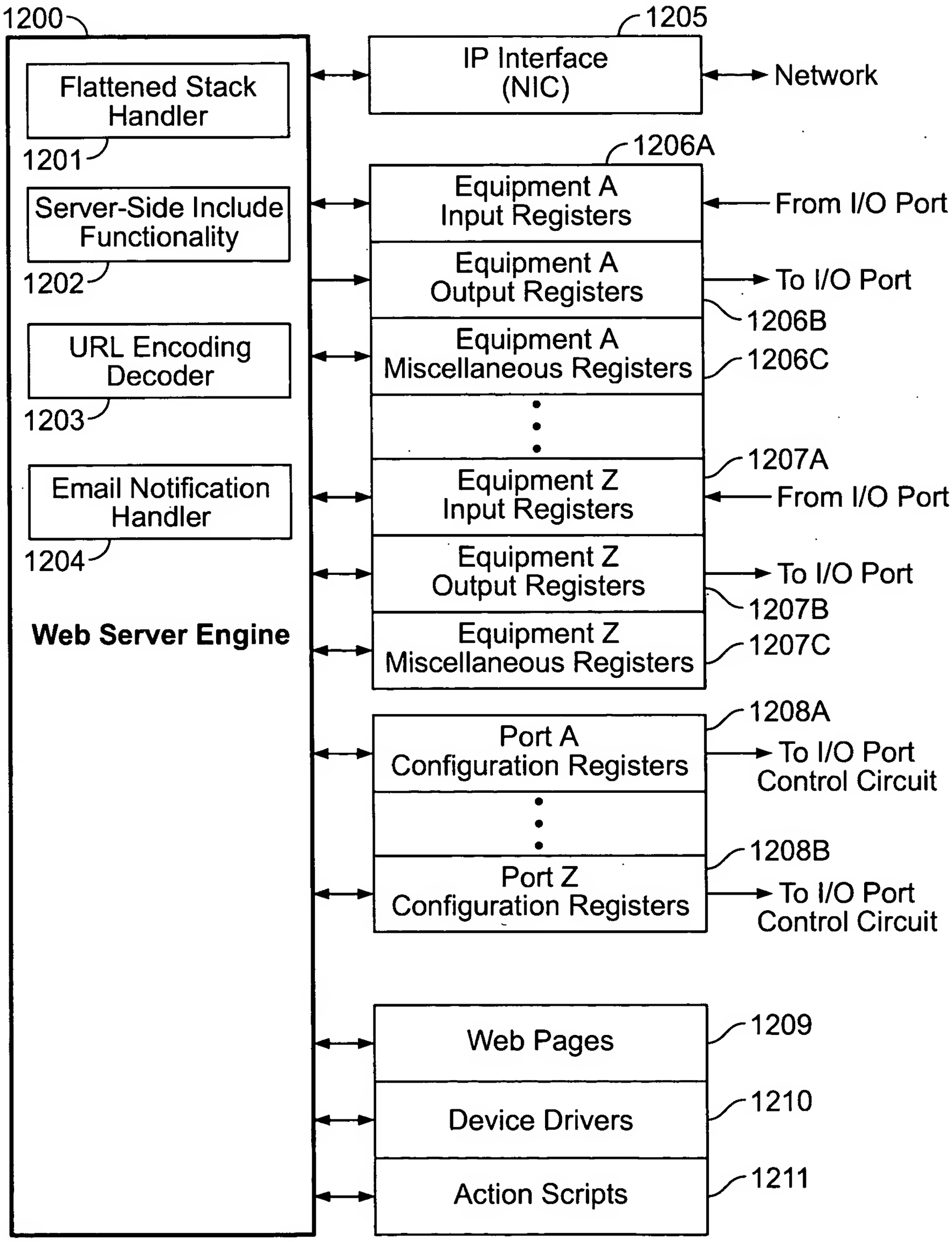
1200
Flattened Stack Handler
1201
Server-Side Include Functionality
1202
URL Encoding Decoder
1203
Email Notification Handler
1204
Web Server Engine
1205
IP Interface (NIC)
Network
1206A
Equipment A Input Registers
From I/O Port
Equipment A Output Registers
To I/O Port
1206B
Equipment A Miscellaneous Registers
1206C
Equipment Z Input Registers
1207A
From I/O Port
Equipment Z Output Registers
To I/O Port
1207B
Equipment Z Miscellaneous Registers
1207C
Port A Configuration Registers
1208A
To I/O Port Control Circuit
Port Z Configuration Registers
1208B
To I/O Port Control Circuit
Web Pages
1209
Device Drivers
1210
Action Scripts
1211

FIG. 12

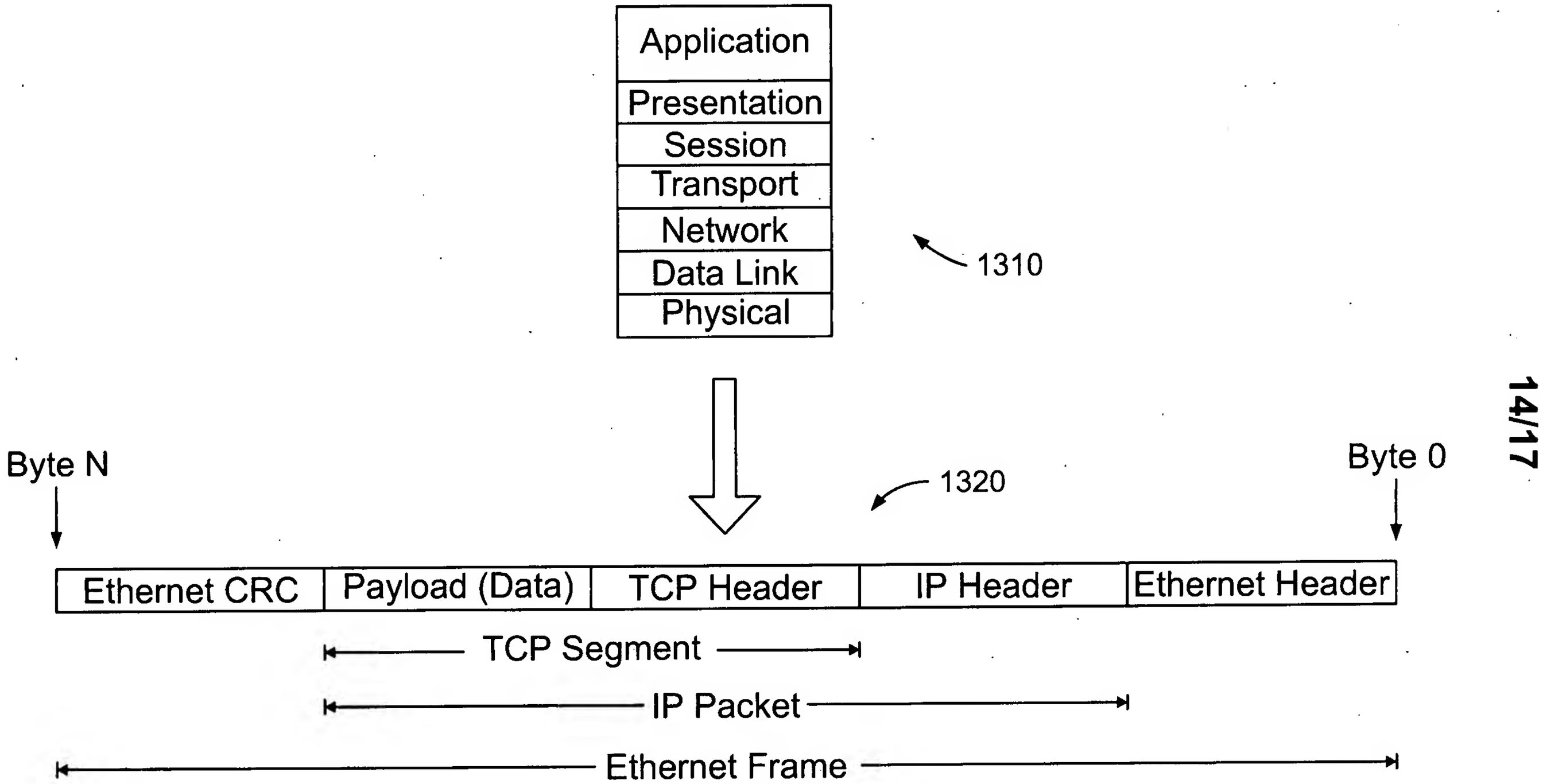
Application
Presentation
Session
Transport
Network
Data Link
Physical
1310
Byte N
Byte 0
1320
Ethernet CRC
Payload (Data)
TCP Header
IP Header
Ethernet Header
TCP Segment
IP Packet
Ethernet Frame

FIG. 13

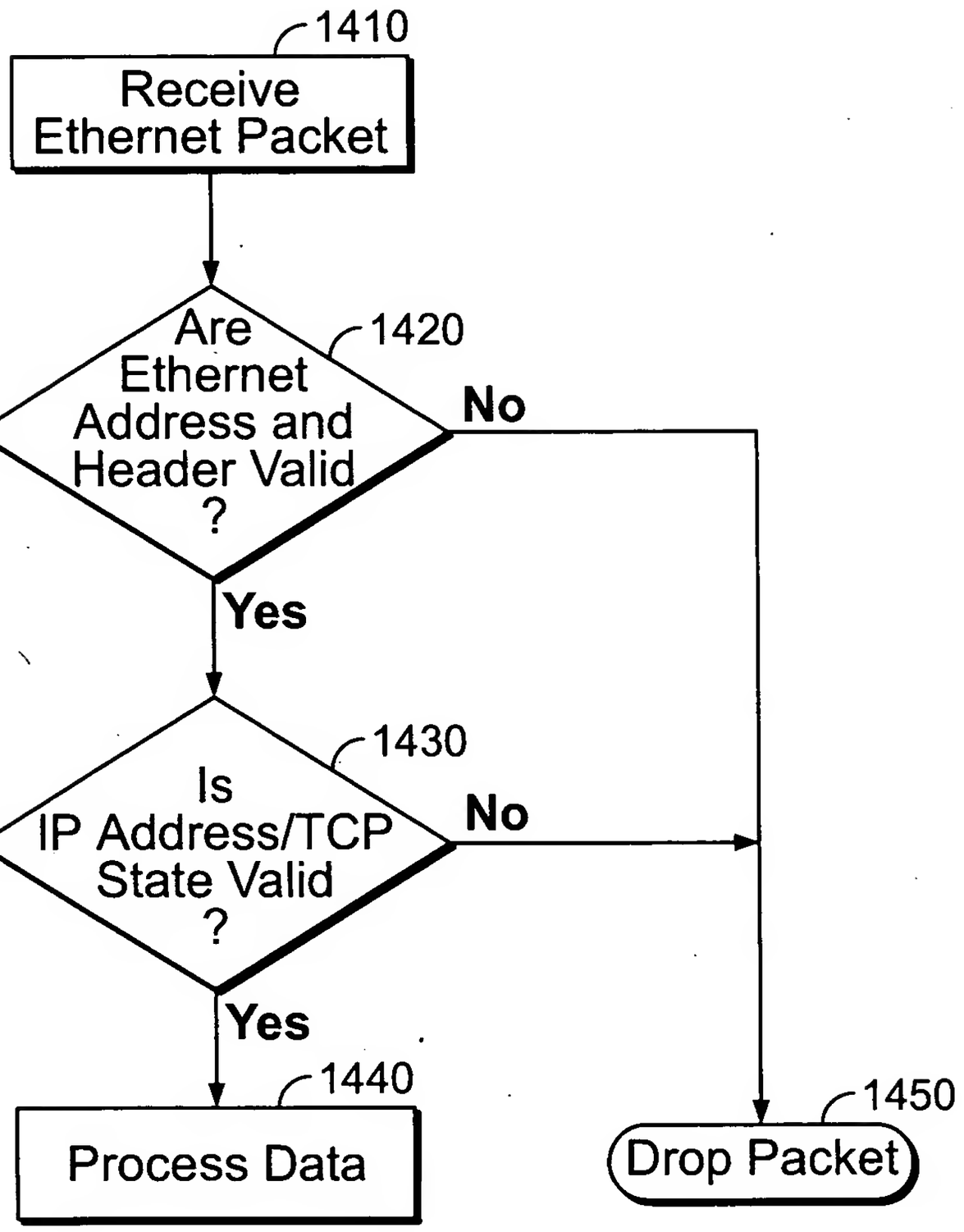
1410
Receive Ethernet Packet
Are Ethernet Address and Header Valid ?
1420
No
Yes
Is IP Address/TCP State Valid ?
1430
No
Yes
1440
Process Data
1450
Drop Packet

FIG. 14

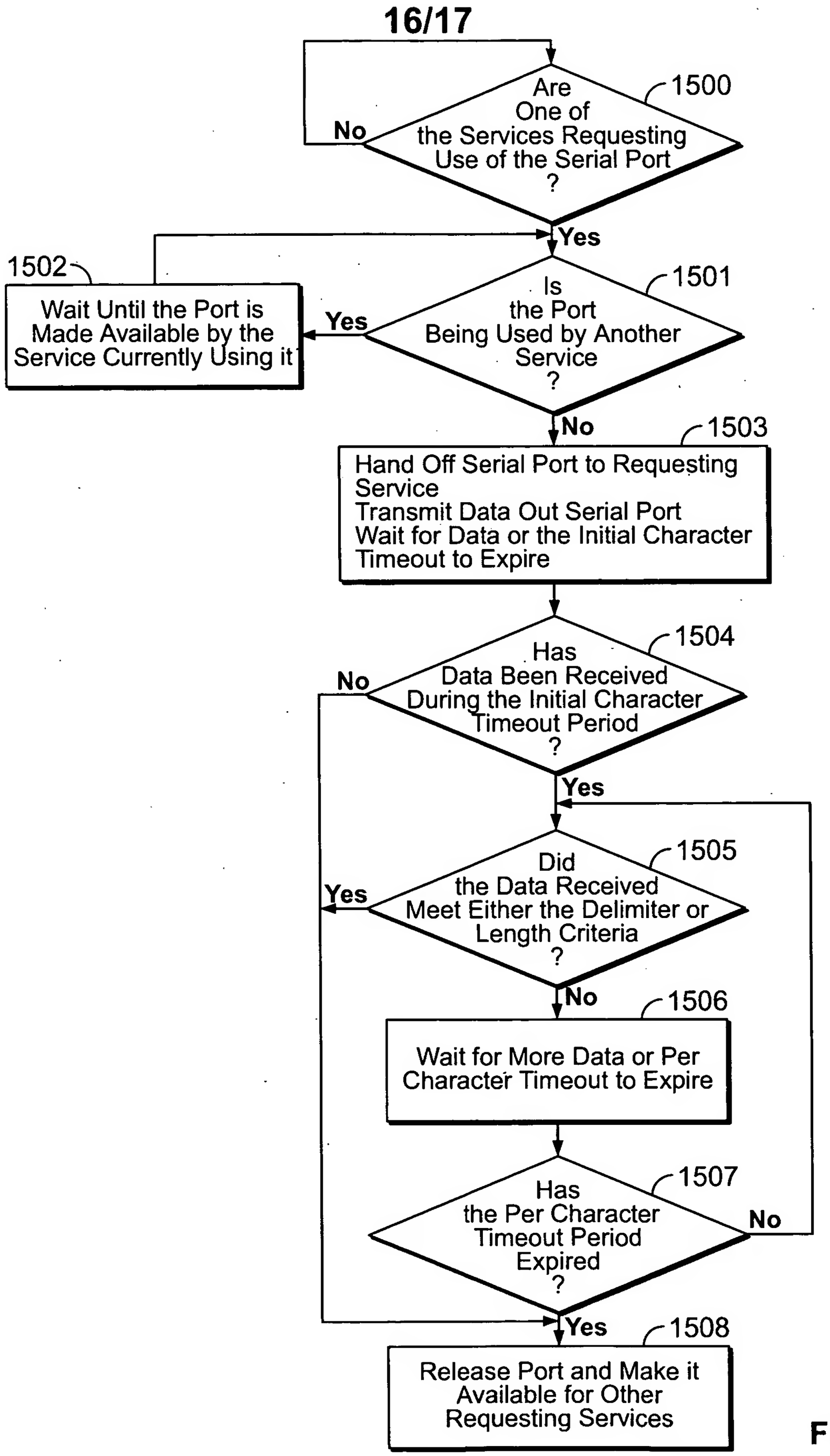
Are One of the Services Requesting Use of the Serial Port ?
1500
No
Yes
Is the Port Being Used by Another Service ?
1501
Yes
1502
Wait Until the Port is Made Available by the Service Currently Using it
No
1503
Hand Off Serial Port to Requesting Service
Transmit Data Out Serial Port
Wait for Data or the Initial Character Timeout to Expire
Has Data Been Received During the Initial Character Timeout Period ?
1504
No
Yes
Did the Data Received Meet Either the Delimiter or Length Criteria ?
1505
Yes
No
1506
Wait for More Data or Per Character Timeout to Expire
Has the Per Character Timeout Period Expired ?
1507
No
Yes
1508
Release Port and Make it Available for Other Requesting Services

FIG. 15

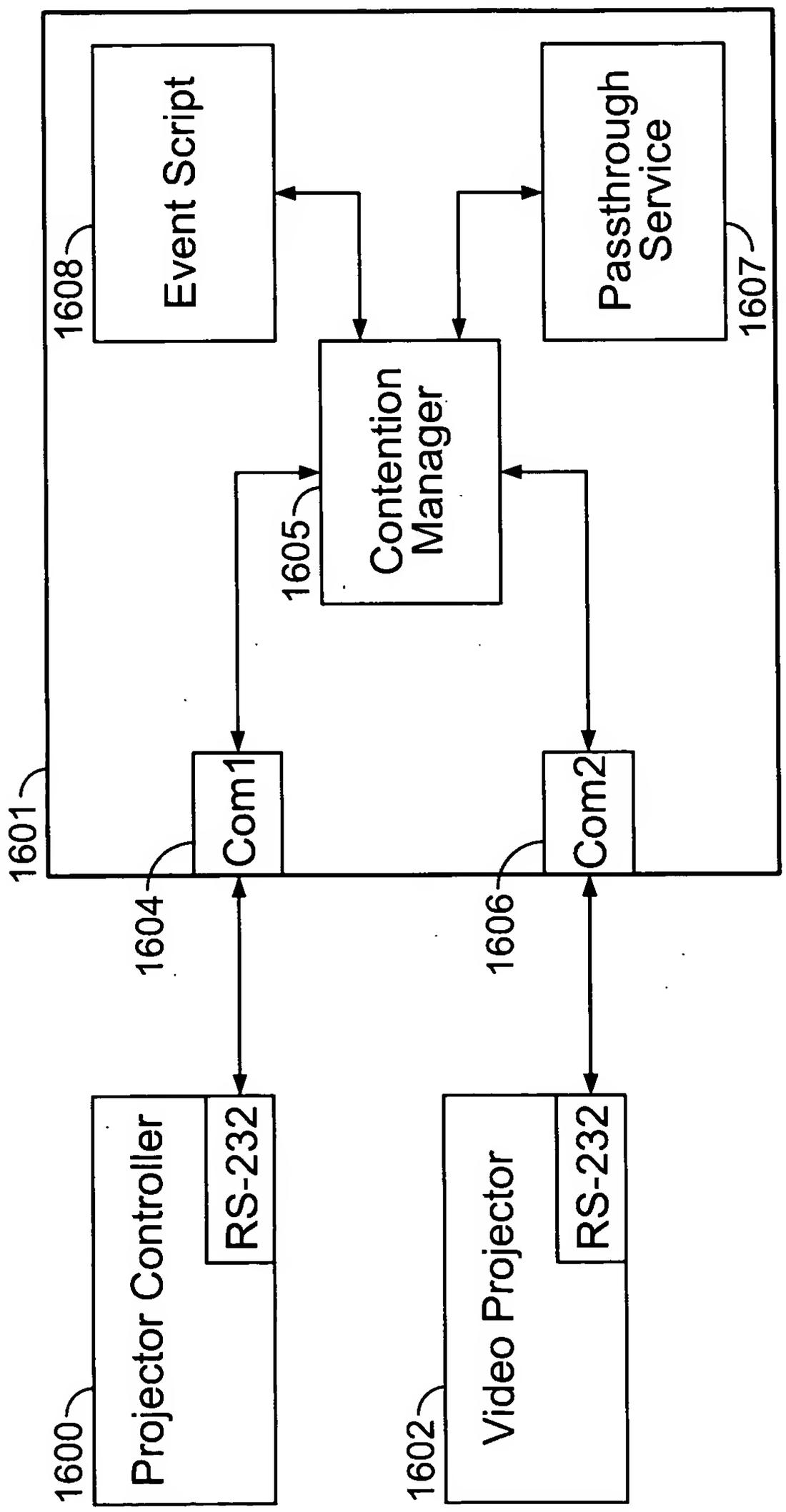
Event Script
1608
Passthrough Service
1607
Contention Manager
1605
Com1
Com2
1601
1604
1606
Projector Controller
RS-232
1600
Video Projector
RS-232
1602

FIG. 16